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C L A I M S

1. A method of radially expanding a tubular element extending into a wellbore, the tubular element having a first section to be expanded to a first diameter and a second section to be expanded to a second diameter, the first diameter being larger than the second diameter, the method comprising:
- 5 a) arranging an expander in the wellbore, the expander including a first expander member and a second expander member, wherein the first member has a larger outer diameter than the second member, said members being releasably interconnected;
- 10 b) moving the expander through the first tubular section so as to expand the first tubular section to the first diameter;
- 15 c) releasing the second expander member from the first expander member; and
- d) moving the second expander member through the second tubular section so as to be expanded to the second diameter.
- 20 2. The method of claim 1, wherein the first tubular section is a lower end part of the tubular element, and the second tubular section is the remaining part of the tubular element.
3. The method of claim 2, wherein the tubular element is a previous tubular element and wherein the tubular string includes a next tubular element, the method further comprising:
- 25 e) after step d) lowering the next tubular element through the previous tubular element until an upper end

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part of the next tubular element is arranged in the lower end part of the previous tubular element; and

5 f) expanding said upper end part of the next tubular element so as to become sealingly arranged in the lower end part of the previous tubular element.

4. The method of claim 3, wherein said upper end part of the next tubular element is expanded to substantially the second diameter.

10 5. The method of claim 3 or 4, wherein the first expander member remains in the lower end part of the previous tubular element, and wherein the next tubular element is provided at the lower end thereof with the second expander member or with a similar expander member, the method further comprising:

15 g) upon passage of the second expander member or the similar expander member through the lower end part of the previous tubular element, connecting the second expander member or the similar expander member to the first expander member;

20 h) before step f), moving the expander through a lower end part of the next tubular element so as to expand said lower end part of the next tubular element to substantially the first diameter;

25 i) releasing the first expander member from the second expander member; and

j) moving the second expander member through the remaining part of the next tubular element so as to expand said remaining part to substantially the second diameter.

30 6. The method of any one of claims 3-5, wherein a plurality of said next tubular elements are expanded in the wellbore, and wherein steps e)-j) are repeated for each set of adjacent tubular elements.

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7. The method of any one of claims 1-6, wherein said expander members are interconnected by a latching system.
8. The method of any one of claims 1-6, wherein the tubular string is a casing string of the wellbore.
- 5 9. The method substantially as described hereinbefore with reference to the drawings.